

## ABSTRACT

A small-sized multi-frequency antenna duplexer using surface acoustic wave filters to be applicable to a plurality of frequencies. This antenna duplexer includes two surface acoustic wave (SAW) filters for 5 transmission and reception having passing bands of mutually different frequencies, a phase shift substrate, and a package for accommodating them. The passing band of each antenna duplexer is mutually different from other's passing band. This multi-frequency antenna duplexer includes a plurality of antenna duplexers. In one package (14), transmitter surface acoustic wave 10 filters (11a, 11b), receiver surface acoustic filters (12a, 12b), and phase shift substrates (13a, 13b) are mounted. Thus, the multi-frequency antenna duplexer are reduced in size.